Volume Contents

Volume 17 Number 1

P. W. Eloe and J. Henderson	1	Singular nonlinear boundary value problems for higher order ordinary differential equations
A. Canetti, G. Marino and P. Pietramala	11	Fixed point theorems for multivalued mappings in Banach spaces
I. Györi and J. Turi	21	Uniform approximation of a nonlinear delay equation on infinite intervals
Peng Li and N. U. Ahmed	31	Feedback stabilization of some nonlinear stochastic systems on Hilbert space
J. H. Michael and W. P. Ziemer	45	Existence of solutions to obstacle problems
Z. Wyderka	73	On multivalued version of the Darboux theorem with applications in optimal control theory
Z. Wyderka	79	On generalized dynamical systems derived from linear differential equations with measures as coefficients
S. C. Welsh	85	Sufficient conditions for periodic solutions to a class of second-order differential equations
K. Kuttler	95	Regularity of the displacement in a one-dimensional viscoelastic material
Software Survey Section	I	

Volume 17 Number 2

G. Todorova and K. Christov	105	Existence of solutions of semilinear parabolic equations with Hölder nonlinear boundary data
Kuo-Shung Cheng and Jenn-Nan Wang	115	On the classification of solutions of a semilinear elliptic equation
E. Serra	139	Periodic solutions for some nonlinear differential equations of neutral type

J. GÓRNICKI 153 Fixed point theorems for asymptotically regular mappings in L^p spaces

R. KUMAR and P. C. DAS 161 Perturbation of m-accretive operators in Banach spaces

LU YUN-GUANG and ZHAOHUI-JIANG 169 Existence and asymptotic behavior of solutions to 2*2 hyperbolic quadratic conservation laws with small viscosity

R. IKEHATA 181 On solutions to some quasilinear hyperbolic equations with nonlinear inhomogeneous terms

SOFTWARE SURVEY SECTION I

Volume 17 Number 3

E. N. DANCER 205 Upper and lower stability and index theory for positive mappings and applications

B. V. LOGINOV and JU. B. RUSAK 219 Generalized Jordan structure in the problem of the stability of bifurcating solutions

Y. SHIBATA and ZHENG SONGMU 233 On some nonlinear hyperbolic systems with damping boundary conditions

V. KERTÉSZ and R. E. KOOIJ 267 Degenerate Hopf bifurcation in two dimensions

WEI FENG 285 Coupled system of reaction–diffusion equations and applications in carrier facilitated diffusion

SOFTWARE SURVEY SECTION I

Volume 17 Number 4

T. BARTSCH 313 The global structure of the zero set of a family of semilinear Fredholm maps

J. SUGIE 333 The global centre for the Liénard system

U. LEDZEWICZ-KOWALEWSKA 347 Optimality and Pareto optimality conditions for the problems with nonregular operator equality constraints

J. F. REINECK 361 A connection matrix analysis of ecological models

R. A. POLIQUIN 385 Integration of subdifferentials of nonconvex functions

SOFTWARE SURVEY SECTION I

Volume 17 Number 5

J. Berkovits and V. Mustonen	399	On the existence of multiple solutions for semilinear equations with monotone nonlinearities crossing a finite number of eigenvalues
Qingguang Huang	413	Limit boundary value problems for first-order delay differential equations
Jiongmin Yong and Songmu Zheng	431	Feedback stabilization and optimal control for the Cahn–Hilliard equation
M. Comte	445	Solutions of elliptic equations with critical Sobolev exponent in dimension three
G. A. Kamenskii	457	On some necessary conditions of extrema of functionals with deviating argument
G. Anichini, G. Conti and P. Zecca	465	Using solution sets for solving boundary value problems for ordinary differential equations
I. Györi, G. Ladas and P. N. Vlahos	473	Global attractivity in a delay difference equation
M. Girardi and M. Matzeu	481	Dual Morse index estimates for periodic solutions of Hamiltonian systems in some nonconvex superquadratic cases
Software Survey Section	I	

Volume 17 Number 6

A. A. Vladimirov	499	Nonstationary dissipative evolution equations in a Hilbert space
D. Hilhorst and J. Hulshof	519	An elliptic–parabolic problem in combustion theory: convergence to travelling waves
G. Caristi and E. Mitidieri	547	Further results on maximum principles for noncooperative elliptic systems
U. Timm, S. Totaro and A. Okubo	559	Self- and mutual shading effect on competing algal distribution

S. KAWASHIMA 577 Global solutions to the initial-boundary value problems for the discrete Boltzmann equation

SOFTWARE SURVEY SECTION I

Volume 17 Number 7

T. YAMANAKA 599 On ODEs in the ultradifferentiable class

C. P. GUPTA, Y. C. KWONG and J. NECAS 613 Nonresonance conditions for the strong solvability of a general elliptic partial differential operator

Y. KUANG 627 Global stability for a class of nonlinear nonautonomous delay equations

T. DING and F. ZANOLIN 635 Time-maps for the solvability of periodically perturbed nonlinear Duffing equations

I. LASIECKA and R. TRIGGIANI 655 Differential Riccati equations with unbounded coefficients: applications to boundary control/boundary observation hyperbolic problems

J. W. LEE and D. O'REGAN 683 Existence results for differential delay equations—II

SOFTWARE SURVEY SECTION I

Volume 17 Number 8

G. VIDOSSICH 703 Periodic solutions of hyperbolic equations using ordinary differential equations

E. FEIREISL 711 Weakly damped quasilinear wave equation: existence of time-periodic solutions

S. L. HOLLIS and J. MORGAN 725 Global existence and asymptotic decay for systems of convective reaction–diffusion equations

E. P. AVGERINOS and N. S. PAPAGEORGIOU 741 On the sensitivity and relaxability of optimal control problems governed by nonlinear evolution equations with state constraints

JIU DING and TIEN YIEN LI	759	Markov finite approximation of Frobenius–Perron operator
R. P. AGARWAL	773	Sharp Hermite interpolation error bounds for derivatives
LIGENG SI and WANBIAO MA	787	Differential–difference inequalities with unbounded delays and their applications
SOFTWARE SURVEY SECTION	I	

Volume 17 Number 9

JONG-SHENQ GUO	803	On a quenching problem with the Robin boundary condition
L. SANTOS	811	Strong solutions to elliptic and parabolic problems with quasilinear monotone discontinuities
G. GAETA	825	Bifurcation theory and nonlinear symmetries
T. BHATTACHARYA and F. LEONETTI	833	A new Poincaré inequality and its application to the regularity of minimizers of integral functionals with nonstandard growth
M. Z. NASHED and E. P. HAMILTON	841	Local and global bivariational gradients and singular variational derivatives of functionals on $C^n[a,b]$
N. KENMOCHI and T. KOYAMA	863	Nonlinear functional variational inequalities governed by time-dependent subdifferentials
T. AIKI, J. SHINODA and N. KENMOCHI	885	Periodic stability for some degenerate parabolic equations with nonlinear flux conditions
SOFTWARE SURVEY SECTION	I	

Volume 17 Number 10

H. BELLOUT, F. BLOOM and J. NECAS	903	Global existence of weak solutions to the nonlinear transmission line problem
M. FRIGON and C. SACCON	923	Heat equations with discontinuous nonlinearities on convex and nonconvex constraints
J. BLOT	947	On global implicit functions

M. TABOADA 961 Approximate inertial manifolds for parabolic evolutionary equations via Yosida approximations

M. GROSSI 973 Existence and multiplicity results in the presence of symmetry for elliptic equations with critical Sobolev exponent

L. A. PELETIER and ZHAO JUNNING 991 Large time behaviour of solutions of the porous media equation with absorption: the fast diffusion case

SOFTWARE SURVEY SECTION I

Volume 17 Number 11

C. MAMMANA 1011 Evolution equations with forcing term for a class of nonlinear operators

R. RACKE and SONGMU ZHENG 1027 Global existence of solutions to a fully nonlinear fourth-order parabolic equation in exterior domains

F. BERNIS and J. B. MCLEOD 1039 Similarity solutions of a higher order nonlinear diffusion equation

G. KARAKOSTAS, CH. G. PHILOS and Y. G. SFICAS 1069 The dynamics of some discrete population models

A. G. KARTSATOS 1085 The existence of bounded solutions on the real line of perturbed nonlinear evolution equations in general Banach spaces

M. M. PORZIO 1093 L^{∞}_{loc}-Estimates for degenerate and singular parabolic equations

ADDENDUM 1109

SOFTWARE SURVEY SECTION I

Volume 17 Number 12

DENG YIN-BING 1111 On the superlinear Ambrosetti-Prodi problem involving critical Sobolev exponents

M. P. MATOS 1125 Mathematical analysis of the nonlinear model for the vibrations of a string

A. N. Carvalho and J. K. Hale — 1139 — Large diffusion with dispersion

E. Fadell and S. Husseini — 1153 — Category of loop spaces of open subsets in Euclidean space

J. M. Rakotoson — 1163 — Some quasilinear parabolic equations

R. Ferretti and B. Larrouturou — 1177 — Error estimates for truncated domain approximations of travelling wave solutions of a combustion model

D. G. de Figueiredo and O. H. Miyagaki — 1201 — Semilinear elliptic equations with the primitive of the nonlinearity away from the spectrum

Software Survey Section — I

i — Title Page, Volume Contents and Author Index, Volume 17, 1991